ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PHASE I - PRELIMINARY INVESTIGATION

FINAL REPORT

PASCACK BROOK SITE

CONTRACT NO. D000452
NYSDEC SITE NO. 344016

Submitted To:
Division of Solid Waste
New York State
Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

Submitted By:
Woodward-Clyde Consultants, Inc.
1250 Broadway, 15th Floor
New York, New York 10001

September 26, 1984

82C4548

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Woodward-Clyde Consultants, Inc.

September 26, 1984
82C4548

New York State Department of Environmental Conservation
Division of Solid Waste
Room 209
50 Wolf Road
Albany, New York 12233

Attention: Mr. Norman H. Nosenchuck
Director

Subject: Engineering Investigations at Inactive Hazardous Waste Sites in the State of New York
Phase I - Preliminary Investigation
Pascack Brook Site
NYSDEC No. 344016
EPA No. Not Available

Dear Sir:

This report presents the results of our Preliminary Investigation of the Pascack Brook site in Rockland County, New York. This preliminary investigation fulfills the requirements of Phase I of our Contract No. D000452 to perform engineering investigations at 40 inactive hazardous waste sites in the State of New York. Phase II involves field investigation services at the sites.

The objective of Phase I was to:

- collect and review data
- perform a site reconnaissance
- prepare a draft Hazard Ranking System (HRS) and Documentation
- develop a specific site work plan for Phase II
- develop Phase II site investigation costs
- identify known responsible parties
- prepare a summary report

This report contains six sections. Section 1.0 includes a description of the site. Section 2.0 presents the preliminary HRS work sheets, the HRS documentation records, and EPA site assessment forms (2070-12 and 2070-13). Section 3.0 provides a brief summary of the history of site activities. Section 4.0 includes a discussion of existing site data. Section 5.0 provides an assessment of the data adequacy identifying major data gaps. Lastly, Section 6.0 presents the recommended Phase II Site Investigation Work Plan and costs. The sampling and analysis plan and the health and safety plan are not included. These are to be supplied by NYSDEC.

The headwaters of Pascack Brook occur in Rockland County, north of Spring Valley. The Pascack Brook site is located just downstream of the intersection of the brook with Convent Road in Nanuet. The brook flows south from the site into New Jersey, where it drains into the Oradell Reservoir approximately 4 miles south of the New York-New Jersey border. New York State designated fresh water wetlands occur approximatley 1,000 feet north. The owner of this site is unknown.

In August of 1980, during routine stream improvement work on Pascack Brook, approximately 15 to 20 drums containing what was later identified as non-hazardous, urea-hydrogen peroxide solution and other solid and semi-solid wastes were excavated. These materials were removed and disposed of as prescribed by NYSDEC. At the time of the WCC site survey in April of 1983, the only dump observed in the site vicinity was a small mound of dirt covered with brush and trees and referred to as a trash pile. It is not known whether any additional hazardous or non-hazardous materials have been buried in the site vicinity.

The HRS scores developed for the Pascack Brook site are as follows:

S_M = 0.0 (S_{gw} = 0.0 S_{sw} = 0.0 S_a = 0.0)
S_{FE} = N/A
S_{DC} = 0.0

These HRS scores are more a reflection of data inadequacies than of the site characteristics. The work plan for Phase II (field investigations) has been designed to address the specific data gaps identified. We have proposed a limited geophysical survey to better define the presence of contaminant plumes. We also propose to install two shallow monitoring wells and to conduct ground water, surface water, soils and, if possible, waste sampling and analysis. A detailed description of the work plan and costs is provided in Section 6.0. The total estimated cost for Phase II investigations at the Pascack Brook site is $19,245.

If there are any questions or comments concerning the work plan or any other portion of the Phase I report, please do not hesitate to contact us.

Very truly yours,

Donald R. Ganser,
Project Manager

DRG/cp
C607/119

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1.0
SITE DESCRIPTION

The Pascack Brook site is located on the east bank of Pascack Brook just downstream of its intersection with Convent Road in Nanuet, New York (Figure 1). The western boundary of the town of the Clarkstown occurs several hundred feet to the west, and the town's southern boundary occurs about ½ mile to the south.

At the time of the WCC site survey (April, 1983) the only dump observed in the site vicinity was a small mound of dirt covered with brush and trees and referred to as a trash pile.

2.0

U.S. ENVIRONMENTAL PROTECTION AGENCY DOCUMENTATION

This section includes documentation records and work sheets required to develop Hazard Ranking System (HRS) scores. In addition, two EPA files regarding site inspection and preliminary assessment have been completed and are included as required.

Documents included in this section are:

1. Preliminary Hazard Ranking System (HRS) Work Sheets
2. Documentation Records for HRS
3. EPA Form 2070-12 (Preliminary Assessment)
4. EPA Form 2070-13 (Site Inspection Report)

All files were prepared as completely as possible using information available from county, state, and federal agency files. Data on the site is generally sparse. The Rockland County Department of Health and the New York State Department of Health files were the most useful data sources.

Values assigned to the HRS rating factors are indicated with a circle or a square reflecting complete or incomplete data, respectively. All information provided in the Documentation Records for HRS are referenced, and copies of pertinent information are included in Appendix B.

2.1 Preliminary HRS Work Sheets

Facility Name: Pascack Brook at Convent Road

Location: Nanuet, New York

EPA Region: II

Person(s) in Charge of the Facility: N/A

Name of Reviewer: T.G. Campbell **Date:** Sept. 1, 1983

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

15 to 20 55-gallon drums of non-hazardous wastes were excavated and removed during stream improvement work on Pascack Brook. Route scores are either 0.0 or N/A due to lack of adequate data. It is not known what additional wastes, if any, are buried in the site vicinity.

Scores: S_M = 0.0 (S_{gw} = 0.0 S_{sw} = 0.0 S_a = 0.0)

S_{FE} = N/A

S_{DC} = 0.0

GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	[0] 1 2 3	2	0	6	
Net Precipitation	0 1 2 (3)	1	3	3	
Permeability of the Unsaturated Zone	0 1 (2) 3	1	2	3	
Physical State	[0] 1 2 3	1	0	3	
Total Route Characteristics Score			5	15	
3 Containment	0 [1] 2 3	1	1	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	[0] 3 6 9 12 15 18	1	0	18	
Hazardous Waste Quantity	[0] 1 2 3 4 5 6 7 8	1	0	8	
Total Waste Characteristics Score			0	26	
5 Targets					3.5
Ground Water Use	0 1 (2) 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 (30) 32 35 40	1	30	40	
Total Targets Score			36	49	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			0	57,330	
7 Divide line 6 by 57,330 and multiply by 100	$S_{gw} = 0.0$				

SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	0 (1) 2 3	1	1	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6	
Physical State	[0] 1 2 3	1	0	3	
Total Route Characteristics Score			9	15	
3 Containment	0 [1] 2 3	1	1	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	[0] 3 6 9 12 15 18	1	0	18	
Hazardous Waste Quantity	[0] 1 2 3 4 5 6 7 8	1	0	8	
Total Waste Characteristics Score			0	26	
5 Targets					4.5
Surface Water Use	0 1 [2] 3	3	6	9	
Distance to a Sensitive Environment	0 1 (2) 3	2	4	6	
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			10	55	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			0	64,350	
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 0.0				

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score			20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
	Total Targets Score			39	
4 Multiply 1 x 2 x 3			0	35,100	
5 Divide line 4 by 35,100 and multiply by 100	S_a = 0.0				

	S	S^2
Groundwater Route Score (S_{gw})	0.0	
Surface Water Route Score (S_{sw})	0.0	
Air Route Score (S_a)	0.0	
$S_{gw}^2 + S_{sw}^2 + S_a^2$		
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$		$S_M = 0.0$

WORKSHEET FOR COMPUTING S_M

N/A

FIRE AND EXPLOSION WORK SHEET

	Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1	Containment	1 3	1		3	7.1
2	Waste Characteristics					7.2
	Direct Evidence	0 3	1		3	
	Ignitability	0 1 2 3	1		3	
	Reactivity	0 1 2 3	1		3	
	Incompatibility	0 1 2 3	1		3	
	Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
	Total Waste Characteristics Score				20	
3	Targets					7.3
	Distance to Nearest Population	0 1 2 3 4 5	1		5	
	Distance to Nearest Building	0 1 2 3	1		3	
	Distance to Sensitive Environment	0 1 2 3	1		3	
	Land Use	0 1 2 3	1		3	
	Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
	Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
	Total Targets Score				24	
4	Multiply 1 x 2 x 3				1,440	
5	Divide line 5 by 1,440 and multiply by 100	S_{FE} = N/A				

DIRECT CONTACT WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	(0) 1 2 3	1	0	3	8.2
3 Containment	[0] 15	1	0	15	8.3
4 Waste Characteristics Toxicity	0 [1] 2 3	5	5	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 (4) 5	4	16	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 0.0				

2.2 Documentation Records for HRS

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Pascack Brook at Convent Road

LOCATION: Nanuet, Rockland County, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

None.

Rationale for attributing the contaminants to the facility:

N/A.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Newark group of Late Triassic age consisting of interbedded red and brown fine to coarse sandstone and conglomerate and some beds of shale (Perlmutter, 1959).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

Unknown.

Depth from the ground surface to the lowest point of waste disposal/storage:

Approximately 17 feet (Rockland County Journal News, 1980a).

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

48 inches (Users Manual).

Mean annual lake or seasonal evaporation (list months for seasonal):

30 inches (Users Manual).

Net precipitation (subtract the above figures):

18 inches.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Silty sand/sand. (WCC Site Survey, 1983).

Permeability associated with soil type:

10^{-5} to 10^{-3} cm/sec. (User's Manual).

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquid and powder at the time of disposal (Rockland County Journal News, 1980a). These drums have since been removed. Physical state of any additional wastes which may be buried is unknown.

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Materials were contained in 55 gallon drums which have since been removed (NYSDOH, 1980a). Containment of any additional buried wastes is unknown.

Method with highest score:

N/A.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

None.

Compound with highest score:

None.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

15-20 55-gallon drums (Rockland County DOH, 1983b) were uncovered but were subsequently found to be non-hazardous (NYSDEC, Division of Hazardous Wastes, 1983). Quantity of any additional buried wastes is unknown.

Basis of estimating and/or computing waste quantity:

Visual observation by RCDOH (Rockland County DOH, 1983b).

5. TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Potable water, public supply (Rockland County DOH, 1983a).

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Several residences with private wells occur within 500 feet (NYSDEC, Toxics Unit, 1980).

Distance to above well or building:

See above.

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Grotke #83	Eckerson Rd. E #71	Nanuet Well Fld #13&14	Monsey Grove #30
Birchwood Ave.#70	Eckerson Rd. W. #82	Pearl River #22	Germonds #21
Spring Vlly Well Fld (Wells #1,2,3,4,6,17)	Lake Shore #73	Pine Brook #69	Bardonia #19
	Wesel Rd. #32	Saddle River #53	
Pascack Rd. #65	Norge Ave. #64	Monsey Rt. 59 #31	

(Rockland County DOH, 1983a)

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Unknown, probably 0.

Total population served by ground water within a 3-mile radius:

Approximately 40,000 (Donnelly Marketing, 1982).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None.

Rationale for attributing the contaminants to the facility:

N/A

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Variable, but generally flat less than 3 percent (WCC Site Survey, 1983)

Name/description of nearest downslope surface water:

Pascack Brook, immediately adjacent to site (WCC Site Survey, 1983)

Average slope of terrain between facility and above-cited surface water body in percent:

Between 3 to 5 percent (WCC Site Survey, 1983).

Is the facility located either totally or partially in surface water?

Site is located in the flood plain of the Pascack Brook and, therefore, is probably subject to flooding during months of heavy precipitation (WCC Site Survey, 1983).

Is the facility completely surrounded by areas of higher elevation?

No (WCC Site Survey, 1983; USGS, 1955).

1-Year 24-Hour Rainfall in Inches

2.5 inches (Users Manual).

Distance to Nearest Downslope Surface Water

Immediately adjacent (WCC Site Survey, 1983; USGS, 1955).

Physical State of Waste

Liquid and powder at the time of deposition. Wastes have since been removed (Rockland County Journal News, 1980a). Physical state of any additional wastes which may be buried is unknown.

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Wastes were contained in 55-gallon drums which have since been removed (NYSDOH, 1980a).

Method with highest score:

Unknown.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

None.

Compound with highest score:

N/A.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

15-20 55-gallon drums (Rockland County DOH, 1983b) were subsequently found to be non-hazardus (NYSDEC, Division of Hazardous Waste, 1983). Quantity of any additional wastes which may be buried is unknown.

Basis of estimating and/or computing waste quantity:

Visual observation by RCDOH (Rockland County DOH, 1983b).

* * *

5. TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Possibly light recreation. Pascack Brook is a water supply source more than 3 miles downstream in New Jersey, and also flows into the Oradell Reservoir in New Jersey (NYSDEC, Toxics Unit, 1980).

Is there tidal influence?

No.

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A.

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

1000 feet (NYSDEC, Division of Fish and Wildlife, 1975).

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None (NYSDEC, Division of Fish and Wildlife, 1983; USF&WS, 1983).

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

N/A.

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

N/A.

Total population served:

N/A.

Name/description of nearest of above water bodies:

N/A.

Distance to above-cited intakes, measured in stream miles:

N/A.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

None.

Date and location of detection of contaminants:

N/A.

Methods used to detect the contaminants:

N/A.

Rationale for attributing the contaminants to the site:

N/A.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Unknown.

Most incompatible pair of compounds:

N/A.

Toxicity

Most toxic compound:

N/A.

Hazardous Waste Quantity

Total quantity of hazardous waste:

15-20 55-gallon drums (Rockland County DOH, 1983b) were subsequently found to be non-hazardous (NYSDEC, Division of Hazardous Wastes, 1983). Quantity of any additional wastes which may be buried is unknown.

Basis of estimating and/or computing waste quantity:

Visual observation by RCDOH (Rockland County DOH, 1983b).

* * *

3. TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi	0 to 1 mi	0 to 1/2 mi	0 to 1/4 mi
63,147	4,695	-	-

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A.

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

1000 feet (NYSDEC, Division of Fish and Wildlife, 1975).

Distance to critical habitat of an endangered species, if 1 mile or less:

None (NYSDEC, Division of Fish and Wildlife, 1983).

Land Use

Distance to commercial/industrial area, if 1 mile or less:

More than 1 mile (WCC Site Survey, 1983).

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

More than 2 miles (USGS, 1955).

Distance to residential area, if 2 miles or less:

Immediately adjacent (WCC Site Survey, 1983).

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Approximately 1 mile (WCC Site Survey, 1983).

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Unknown.

Is a historic or landmark site (National Register of Historical Places and National Natural Landmarks). within the view of the site?

No (NYS Parks and Recreation, Division for Historic Preservation, Field Services Bureau, 1983)..

2.3 EPA Form 2070-12

(Preliminary Assessment)

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: NA

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Pascack Brook at Convent Road	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Intersection of Convent Rd & Pascack BK.				
03 CITY: Nanuet	04 STATE: NY	05 ZIP CODE: 10954	06 COUNTY: Rockland	07 COUNTY CODE:	08 CONG DIST:
09 COORDINATES LATITUDE: 41 05 15.0	LONGITUDE: 074 02 06.0				

10 DIRECTIONS TO SITE (Starting from nearest public road)
Site is located on Convent Road at Pascack Brook, several hundred feet south of Pascack Road.

III. RESPONSIBLE PARTIES

01 OWNER (if known): Unknown	02 STREET (Business, mailing, residential):			
03 CITY:	04 STATE:	05 ZIP CODE:	06 TELEPHONE NUMBER: ( )	
07 OPERATOR (If known and different from owner): Unknown	08 STREET (Business, mailing, residential):			
09 CITY:	10 STATE:	11 ZIP CODE:	12 TELEPHONE NUMBER: ( )	

13 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL: ____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: ____ (Specify) ☒ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: __/__/__ (MONTH DAY YEAR) ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 04/21/83 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: ____ (Specify)

CONTRACTOR NAME(S): Woodward Clyde Consultants, Inc.

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
____ | ____ (BEGINNING YEAR, ENDING YEAR) ☒ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
15-20 55-gallon drums of wastes (subsequently found to be non-hazardous), were uncovered during stream improvement work.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Drums have since been removed, but potential may exist for additional buried wastes.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT:	02 OF (Agency/Organization):		03 TELEPHONE NUMBER: ( )
04 PERSON RESPONSIBLE FOR ASSESSMENT: Donald R. Ganser	05 AGENCY:	06 ORGANIZATION: Woodward Clyde Consultants Inc.	07 TELEPHONE NUMBER: ~~(212) 926-5878~~ (201) 785-0700	08 DATE: 09/01/83 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) Unknown

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER _____ (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS Unknown

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply) Unknown

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☐ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

USGS, Park Ridge, NJ. 7.5 min. topographic map, (1955).

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

J. DAMAGE TO FLORA
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ **K. DAMAGE TO FAUNA**
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
NARRATIVE DESCRIPTION (include name(s) of species)

N/A

L. CONTAMINATION OF FOOD CHAIN
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
NARRATIVE DESCRIPTION

N/A

01 ☐ **M. UNSTABLE CONTAINMENT OF WASTES**
(Spills/runoff/standing liquids/leaking drums)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION

N/A

☐ **N. DAMAGE TO OFFSITE PROPERTY**
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
NARRATIVE DESCRIPTION

N/A

01 ☐ **O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs**
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

☒ **P. ILLEGAL/UNAUTHORIZED DUMPING**
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
NARRATIVE DESCRIPTION
15-20 55-gallon drums of non-hazardous wastes were uncovered during stream improvement work. It is believed these wastes were dumped 15-20 years ago.

DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Potential may exist for additional buried wastes.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 4695 within 1 mile

COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NYSDOH, 1980b; Donnlley Marketing, 1982)

FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No information available (N/A)

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

2.4 EPA Form 2070-13

(Site Inspection Report)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Pascack Brook at Convent Road	Intersection of Convent Rd. & Pascack Bk.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Nanuet	NY	10954	Rockland		

09 COORDINATES LATITUDE	LONGITUDE
41 05 15.	074 02 06.

10 TYPE OF OWNERSHIP (Check one)
☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER _____ ☒ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
04 / 21 / 83 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	_____ BEGINNING YEAR _____ ENDING YEAR ☒ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR Woodward Clyde Consultants (Name of firm) Inc. ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
M.A. Khoury	Ass. Project Engineer	Woodward-Clyde Consultants	(201) 785-0700

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
None.			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☐ WARRANT	9:00 AM	Sunny, 55°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
		( )

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Donald R. Ganser		Woodward Clyde Consultants	(212) 926-2878 (201) 785-0700	09 / 01 / 83 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	N/A

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
- ☐ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER UnKnown (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS
- CUBIC YARDS UnKnown
- NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☐ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☑ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☑ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

UnKnown.

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No information available (N/A)

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ C CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ D FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION

N/A

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: N/A

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids/Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

N/A

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

15-20 55-gallon drums of non-hazardous wastes were uncovered during stream improvement work. It is believed that these wastes were dumped 15-20 years ago.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Potential may exist for additional buried wastes.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 4695 within 1 mile radius

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(NYSDOH, 1980b; Donnlley Marketing, 1982)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☒ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☒ I. OTHER (Specify) buried drums (removed 8-80)		

04 TREATMENT (Check all that apply) None.
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE
21 (Acres)

07 COMMENTS
15-20 55-gallon drums of non-hazardous wastes were excavated during stream improvement work at Pascack Brook. Although these drums were removed, the potential for additional buried wastes may exist.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
Wastes were contained in drums, many of which were leaking.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☐ NO
02 COMMENTS: Access to site is easy. Access to potential wastes is more difficult because they would be buried.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

(Rockland County Journal News, 1980a; NYDOH, 1980a)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. 0.6 (mi)
B. 0.1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 233,000 in Rockland Co.

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.1 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
Unknown (ft)	Unknown	Unknown (ft)	Unknown (gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

23 public wells owned by Spring Valley Water Company are located within 3 miles of the site. There are also several residences with private wells within 500 feet.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS	☐ YES ☐ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Pascack Brook	☐	immediately adjacent (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (4) MILES OF SITE
A. 4695 NO OF PERSONS	B. 17,166 NO OF PERSONS	C. 63,147 NO OF PERSONS

02 DISTANCE TO NEAREST POPULATION

≈ 0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

≈ 6881

04 DISTANCE TO NEAREST OFF-SITE BUILDING

200' (ft)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

(Rockland County DOH, 1983a; NYSDEC, Toxics Unit, 1980; Rockland County DOH, 1983c; Donnlley Marketing, 1982; WCC Site Survey, 1983)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)
☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)
☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
unknown (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
18 (in)	2.5 (in)	<3 %	SE	3-5% %

09 FLOOD POTENTIAL
SITE IS IN 100 YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. – (mi)	B. 0.2 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
_____ (mi)
ENDANGERED SPECIES: –

13 LAND USE IN VICINITY

DISTANCE TO: COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. – (mi)	B. 20.1 (mi)	C. – (mi)	D. ≈ 1.0 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The area in the vicinity of the site appears to have been filled and demonstrates a gradual slope in the direction of Pascack Brook.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(User's Manual; NYSDEC, Division of Fish and Wildlife, 1975; WCC Site Survey, 1983; USGS, 1955)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE: NY | 02 SITE NUMBER: N/A

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	Several	Spring Valley Water Company	8-80
SURFACE WATER			
WASTE	Several	H2M Company, Hackensack Water Co.	8-80
AIR			
RUNOFF			
SPILL			
SOIL	Several	Unknown	8-80
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ X GROUND ☐ AERIAL

02 IN CUSTODY OF: WCC Files (Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS: WCC Files

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

None.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(Rockland County Journal News, 1980a; NYSDOH, 1980b; WCC Site Survey 1983)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	04 SIC CODE
Unknown		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE
08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE
08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE
08 NAME	09 D+B NUMBER	11 SIC CODE
10 STREET ADDRESS (P.O. Box, RFD #, etc.)		
12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
Unknown		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D+B NUMBER	04 SIC CODE
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		
05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(NYSDOH, 1980).

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER
12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
14 CITY	15 STATE / 16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(NYSDOH, 1980).

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	N/A

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(NYSDOH, 1980).

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 X G. WASTE DISPOSED ELSEWHERE — 02 DATE 8.80 — 03 AGENCY _____
04 DESCRIPTION Wastes found to be non-hazardous and disposed of at Clarkstown landfill

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: N/A

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

(NYSDOH, 1980b)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE: NY	02 SITE NUMBER: N/A

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

In August of 1980, the site was referred to the NYSDEC's strike Force for investigation into who and when this material was dumped. The following month the Rockland County Legislature approved a 25,000 - expenditure for any necessary analyses regarding the site.

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

(NYSDOH, 1980)

EPA FORM 2070-13 (7-81)

3.0
SITE HISTORY

Existing informaton on the Pascack Brook site suggests that the dump area may be from 15 to 20 years old (NYSDOH, 1980b). On August 7, 1980, about 15 barrels were unknowingly excavated along with additional refuse at a depth of 17 feet, during work associated with stream improvement of Pascack Brook in Nanuet (Rockland County Journal News, 1980a). Preliminary analyses on the contents of one of the drums, conducted by Rockland County indicated a non-hazardous urea-hydrogen peroxide solution (NYSDOH, 1980a). In mid-September of 1980, the Rockland County Legislature approved a $25,000 expenditure for any additional analyses (NYSDOH, 1980c). Subsequent analyses by H2M Corporation for the Department of Health in October of 1980, demonstrated that the wastes "did not appear to have a significant effect on the environment as toxic or hazardous wastes." This determination was based on the fact that the material found was in a solid or semi-solid state (greater than 20% solids) (RCDA, 1980). In light of these findings, the materials were removed and disposed of as prescribed by the NYSDEC.

In April of 1980, WCC conducted an onsite field investigation. The only wastes observed in the site vicinity at this time was a small mound of dirt covered with brush and trees and referred to as a trash pile. It is not known whether any additional hazardous or non-hazardous materials have been buried in the site vicinity.

4.0
SITE DATA

4.1 Site Area Surface Features

The Pascack Brook site is located in the flood plain of the brook in a hummocky region of Rockland County. The headwaters of the brook occur in Rockland County, north of Spring Valley. The brook flows south from the site into New Jersey, where it drains into the Oradell Reservoir approximately 4 miles south of the New York-New Jersey border. New York State designated fresh water wetlands occur approximately 1,000 feet north of the site (NYSDEC, Division of Fish and Wildlife, 1975).

Land use in the site vicinity is residential. It is estimated that more than 50 dwellings occur within ¼ mile and more than 100 dwellings within 1 mile of the site. Many of the homes in the immediate vicinity are less than 2 years old and additional development was on-going at the time of the WCC site survey.

4.2 Site Hydrogeology

4.2.1 Ground Water Occurrence. Water-bearing deposits of Rockland County include both consolidated rocks and unconsolidated deposits. Of these, consolidated rocks are the chief source of water in the county. Of the consolidated rocks, the Newark group, which underlies the Pascack Brook site, constitutes the principal aquifer (Perlmutter, 1959).

Ground water in the Newark group occurs under both water-table and artesian conditions. In the site vicinity, where the consolidated rocks are overlain by unconsolidated deposits of lower permeability, the latter condition most likely prevails. Ground water yields from bedrock in the area are generally adequate

for domestic needs. In fact, at least 23 public supply wells, with an average depth of 419 feet, occur within 3 miles of the Pascack Brook site (RCDH, 1983a). All of these wells are owned by the Spring Valley Water Company.

No site specific information concerning subsurface hydrogeologic conditions is available for the Pascack Brook site.

4.2.2 Ground Water Quality. Except for ground water in the vicinity of the Hudson River, the ground water of Rockland County generally has a low mineral content and is suitable for most domestic and industrial uses without treatment. On the average, the water has a moderate hardness, a low iron concentration and is slightly alkaline except for water in stratified drift and in a few places in the Newark group where it is acidic.

On the basis of its hardness and alkalinity, the water of the Newark group in the southern part of Rockland County may be divided into eastern, central and western belts of somewhat different chemical composition (Perlmutter, 1959). Pascack Brook serves as a general divide between the eastern belt of hard, alkaline water and the central belt of soft water and low alkalinity.

Ground water of the unconsolidated stratified drift generally has a higher mineral content than other sources. Although this water is softer than that of the Newark group, it becomes harder where underlain by consolidated rocks as it is in the site area. Additionally, ground water from the stratified drift is slightly more acidic than that of the Newark group.

Due to the configuration of the Newark group and of overlying layers, this water bearing zone is somewhat, though not totally, protected from the activities of man at the ground surface. In fact, the 6 wells of the Spring Valley well field, located approximately 2 miles northwest of the site, were closed in 1981 due to organic contamination. These wells range in depth from 252 to 500 feet.

4.2.3 Ground Water Use. At least 23 public supply wells occur within 3 miles of the site (RCDH, 1983a). All of these wells are rock wells, tapping the consolidated deposits of the Newark group, and are owned by the Spring Valley Water Company. The wells range in depth from 252 feet to 655 feet, with a mean depth of 419 feet. The closest is the Birchwood Avenue #70 well, located approximately 0.6 miles north of the site.

4.3 Past Sampling and Analysis

As far as is known, the only past sampling and analysis at the site was conducted on contaminated soil and on the wastes which have since been removed.

5.0
DATA ADEQUACY

Data were adequate but incomplete for scoring of the HRS Work Sheets. Ground water, surface water, and direct contact route scores are zero because several factors in each of the routes had no available data. The critical data are those describing the waste characteristics, or any additional wastes which may have been buried below the ground surface. Other factors with missing or unverified data are depth to aquifer of concern, physical state of wastes, population served (Ground Water), surface water use, and containment (Direct Contact).

6.0
WORK PLAN

6.1 Objectives

As far as is known, the only sampling conducted at the Pascack Brook site to date was performed on the waste drums which have since been removed. Hence, the objective of this proposed work plan is to collect essential field information required to adequately prepare a final HRS Score and recommend remedial action, if required. For this site, the work plan will address questions primarily concerning ground water flow and quality, and surface water flow and quality. The plan will also address the possibility of uncovering any additional buried wastes.

6.2 Field Investigation Plan

6.2.1 Geophysical Studies. As part of the on-site field investigation to characterize the hydrologic regime, a geophysical survey utilizing the terrain conductivity technique will be performed at the site. This technique has been utilized successfully in locating subsurface plumes of many different substances. Measurements will be taken at various upgradient locations in the site vicinity to determine expected ranges of background conductivity. Measurements will be taken across and around both portions of the site to identify anomalous conductivity distributions that may indicate buried metallic objects such as drums or other containers. Measurements will be taken downgradient of the site to attempt to identify the presence and direction of movement of any existing plumes of contaminated ground water.

It is anticipated that it will require a two-person team one day to perform the conductivity survey, with readings taken at an exploration depth of 25 feet at each measurement station. The data will be plotted on maps and contoured. These contour maps will provide the basis for defining the number and location of ground water monitoring wells.

6.2.2 Test Pits. Test pits will be excavated by backhoe at various locations around the site as shown in Figure 2. The main purpose of these pits will be to provide soil samples for chemical testing, thus allowing a delineation of the possible locations of additional buried waste or of contaminated soils. The pits will be approximately 10 to 15 feet deep. One will be dug downstream from the original dump site and one will be dug upstream.

6.2.3 Monitoring Wells

6.2.3.1 Installation. Monitoring wells will be installed to provide data pertinent to both water chemistry and characterization of the stratigraphy and ground water regime at the site. It is recommended that two monitoring wells be installed at the approximate locations shown in Figure 2. Finalized well locations will be determined after geophysical data has been plotted and reduced.

Well MW-1 will be installed at a presumed upgradient location. This well will provide representative samples of the ground water flowing into the area. Well MW-2 will be situated at a presumed downgradient location, providing the greatest opportunity for interception of any existing contaminated ground water plumes.

Both monitoring wells will be installed so as to sample the upper 10 feet of ground water. Borings will be advanced through overburden by 6-inch I.D. hollow stem augers or driven casing, with continuous split spoon sampling through the upper 15 feet of soil, and at 5-foot intervals below 15 feet. Soil samples will be classified in the field by a hydrogeologist. Selected samples will be submitted to WCC's geotechnical laboratory for grain analysis and Atterberg

Limits, if appropriate. To maximize information on any volatile organic contaminants, headspace analyses will be conducted on soil samples, using a portable gas chromatograph. These data will be used to evaluate relative concentrations of organic contaminants in various stratigraphic horizons.

Slotted 3-inch I.D. PVC well screen will be installed over 10-foot intervals in each well, with a riser of flush joint, threaded, 3-inch I.D. PVC pipe. A gravel pack will be completed to approximately 2 feet above the top of the screen, where a 1-foot bentonite seal will be installed. To further assure that water samples will be representative of the screened interval, the remaining annular space will be grouted, and a protective steel casing will be installed. After installation, all wells will be developed by pumping, to remove any fine grained material.

6.2.3.2 Water Elevations. Ground water depths will be measured at the time of well development and again at the time of sampling. Relative well elevations will be surveyed by WCC personnel. Water elevations will be plotted and used to develop contours of the ground water table at the site. Based on this map, the direction(s) of ground water flow will be calculated.

Flow and gradient data will be fundamental input in quantifying site conditions and will be assessed together with plume geometries inferred from geophysical survey data.

6.2.3.3 Aquifer Testing. "Slug"-type permeability tests will be conducted in each newly installed well to evaluate the permeability of materials spanning the screened interval. The method is a rapid means by which the in-situ permeability in the immediate vicinity of the monitoring well can be approximated. The test does not involve pumping of potentially contaminated water, and results generally suffice for ground water flow analysis.

6.2.4 Sampling and Analysis Plan

6.2.4.1 General Plan. Sampling and analysis plan to be supplied by NYSDEC.

6.2.4.2 Sampling Parameters. Previous sampling at the site is non-existent. Therefore, sampling parameters should cover a wide variety of contaminants including heavy metals, volatile and non-volatile organics, PCB's, and total phenols. Samples will be collected from ground water, surface water, stream sediments and soils. Sample types and chemical parameters are summarized in Table 2.

6.2.4.3 Sampling Locations. All proposed sampling locations are delineated in Figure 2. One water sample from both ground water monitoring wells will be analyzed. Ground water analyses will be evaluated in terms of other hydrogeologic data to evaluate the presence, distribution, and migration directions of any ground water contaminant plumes.

A soil sample will be obtained from the saturated zone at each of the two test pit locations.

Surface water samples will be collected downstream of the site vicinity. This sample will provide information on the quality of surface waters leaving the site vicinity.

6.3 Health and Safety Plan

To be supplied by NYSDEC.

6.4 Cost Estimate

Costs for Phase II work were developed based on assumptions, rates, and charges described in WCC's cost proposal submitted to NYSDEC on 29 October 1982. Costs have been grouped by task, and estimates are presented in Tables 6-2, 6-3, 6-4, 6-5, and 6-6. Estimated costs may be impacted by the sampling and analysis plan or health and safety plan to be supplied by NYSDEC. The total estimated cost for Phase II investigations at the Pascack Brook site is $19,245.

Table 6-1. PROPOSED CHEMICAL ANALYSES AT PASCACK BROOK SITE.

	ANALYSES					
Sample Type	Metals	Volatile Organics	PCB's	Total Phenols	Priority Pollutant Analyses	Remarks
Ground Water	X	X	X	X		One sample from each of two wells.
Soil					X	One sample from saturated zone at each of two test pits.
Surface Water					X	One sample downstream.

TABLE 6-2. GEOPHYSICAL STUDIES COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	24	12.62	303	
		Total Direct Labor		$ 303
	O H Rate	X Base		
4. Labor Overhead	120%	303	364	
		Total Labor Overhead		$ 364
5. Special Testing				
6. Special Equipment-Terrain Conductivity Equipment (EM-34)				$ 200
		Total Special Equipment		$ 200
7. Travel				
a. Transportation			12	
b. Subsistence				
		Total Travel		$ 12
8. Consultants				
9. Other Direct Costs				
10.		**Total Direct Costs and Overhead**		$ 879
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 102
12. Royalties				
13.			**Sub-Total**	$ 981
14. Fee			88	
15.		**Total Estimated Cost**		$1,069

TABLE 6-3. DRILLING/WELL INSTALLATION COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items			$ 3,930	
c. Other				
		Total Direct Material		$ 3,930
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	55	12.62	694	
		Total Direct Labor		$ 694
	O H Rate	X Base		
4. Labor Overhead	120%	694	833	
		Total Labor Overhead		$ 833
5. Special Testing				
6. Special Equipment				
Century Organic Vapor Analyzer			250	
Photovac 10A10 Gas Chromatograph			450	
		Total Special Equipment		$ 700
7. Travel				
a. Transportation			59	
b. Subsistence				
		Total Travel		$ 59
8. Consultants				
9. Other Direct Costs				
10.		Total Direct Costs and Overhead		$ 6,216
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 827
12. Royalties				
13.		Sub-Total		$ 7,043
14. Fee			634	
15.		Total Estimated Cost		$ 7,677

TABLE 6-4. SAMPLING AND ANALYSIS COSTS.

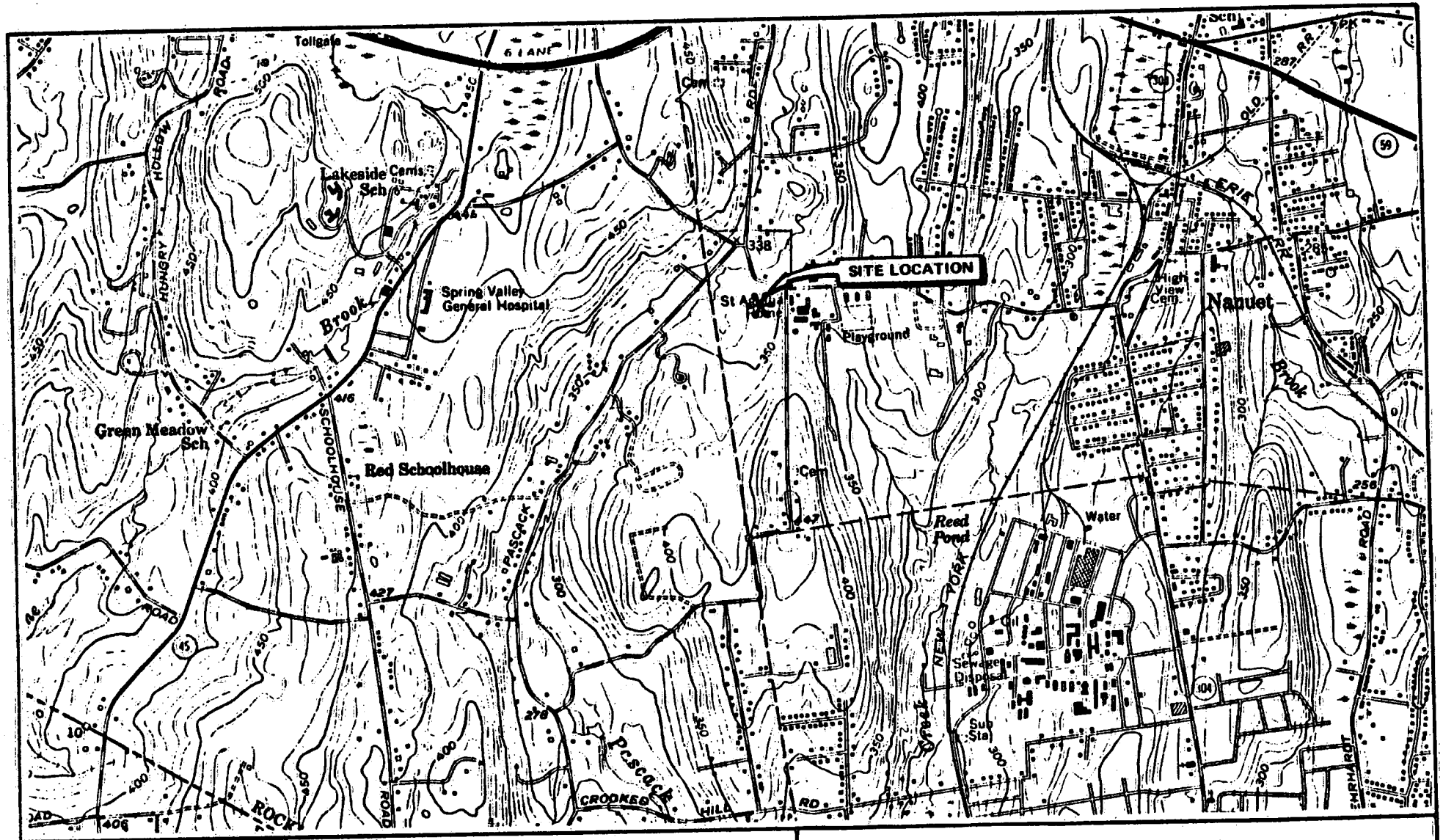
			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items			$4,400	
c. Other				
		Total Direct Materials		$4,400
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Staff Engineer/ Geologist/Scientist	8	11.54	92	
		Total Direct Labor		$ 92
	O H Rate	X Base		
4. Labor Overhead	120%	92	110	
		Total Labor Overhead		$ 110
5. Special Testing-One Laboratory Permeability Test			190	
Grain Size Analyses			464	
Atterberg Limits			264	
		Total Special Testing		$ 918
6. Special Equipment - Pumps, Bailers			100	
		Total Special Equipment		$ 100
7. Travel				
a. Transportation			12	
b. Subsistence				
		Total Travel		$ 12
8. Consultants				
9. Other Direct Costs				
Sample Shipment			100	
		Total Other Direct Costs		$ 100
10.		Total Direct Costs and Overhead		$ 5,732
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 692
12. Royalties				
13.		Sub-Total		$ 6,424
14. Fee			578	
15.		Total Estimated Cost		$ 7,002

TABLE 6-5. REPORT PREPARATION COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Senior Staff Engineer/ Geologist/Scientist	30	12.62	379	
Draftsperson	10	10.24	102	
Typist	3	8.44	25	
		Total Direct Labor		$ 506
	O H Rate	X Base		
4. Labor Overhead	120%	506	607	
		Total Labor Overhead		$ 607
5. Special Testing				
6. Special Equipment				
7. Travel				
a. Transportation				
b. Subsistence				
8. Consultants				
9. Other Direct Costs			150	
		Total Other Direct Costs		$ 150
10.		Total Direct Costs and Overhead		$ 1,263
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 3, 7, 9)				$ 189
12. Royalties				
13.			Sub-Total	$ 1,452
14. Fee			131	
15.		Total Estimated Cost		$ 1,583

TABLE 6-6. PROJECT MANAGEMENT COSTS.

			Estimated Cost	Total Estimated Cost
1. Direct Material				
a. Purchased Parts				
b. Subcontract Items				
c. Other				
2. Material Overhead				
	Estimated Hours	Rate/ Hour		
3. Direct Labor				
Principal In Charge	2	33.32	67	
Activity Leader	10	20.92	209	
Project Manager	10	20.91	209	
Asst. Prj. Engr/Geol/Sci.	10	14.96	150	
Typist	4	8.44	34	
		Total Direct Labor		$ 669
	O H Rate	X Base		
4. Labor Overhead	120%	669	803	
		Total Labor Overhead		$ 803
5. Special Testing				
6. Special Equipment				
7. Travel				
a. Transportation			55	
b. Subsistence				
		Total Travel		$ 55
8. Consultants				
9. Other Direct Costs				
10.		Total Direct Costs and Overhead		$1,527
11. General and Administrative Expense (rate 15% of Cost Element No's. 1, 3, 4, 7, 9)				$ 229
12. Royalties				
13.			Sub-Total	$1,756
14. Fee			158	
15.		Total Estimated Cost		$1,914



NOTE:
BASE MAP FROM USGS, PARK RIDGE, N.J., QUAD, 1955

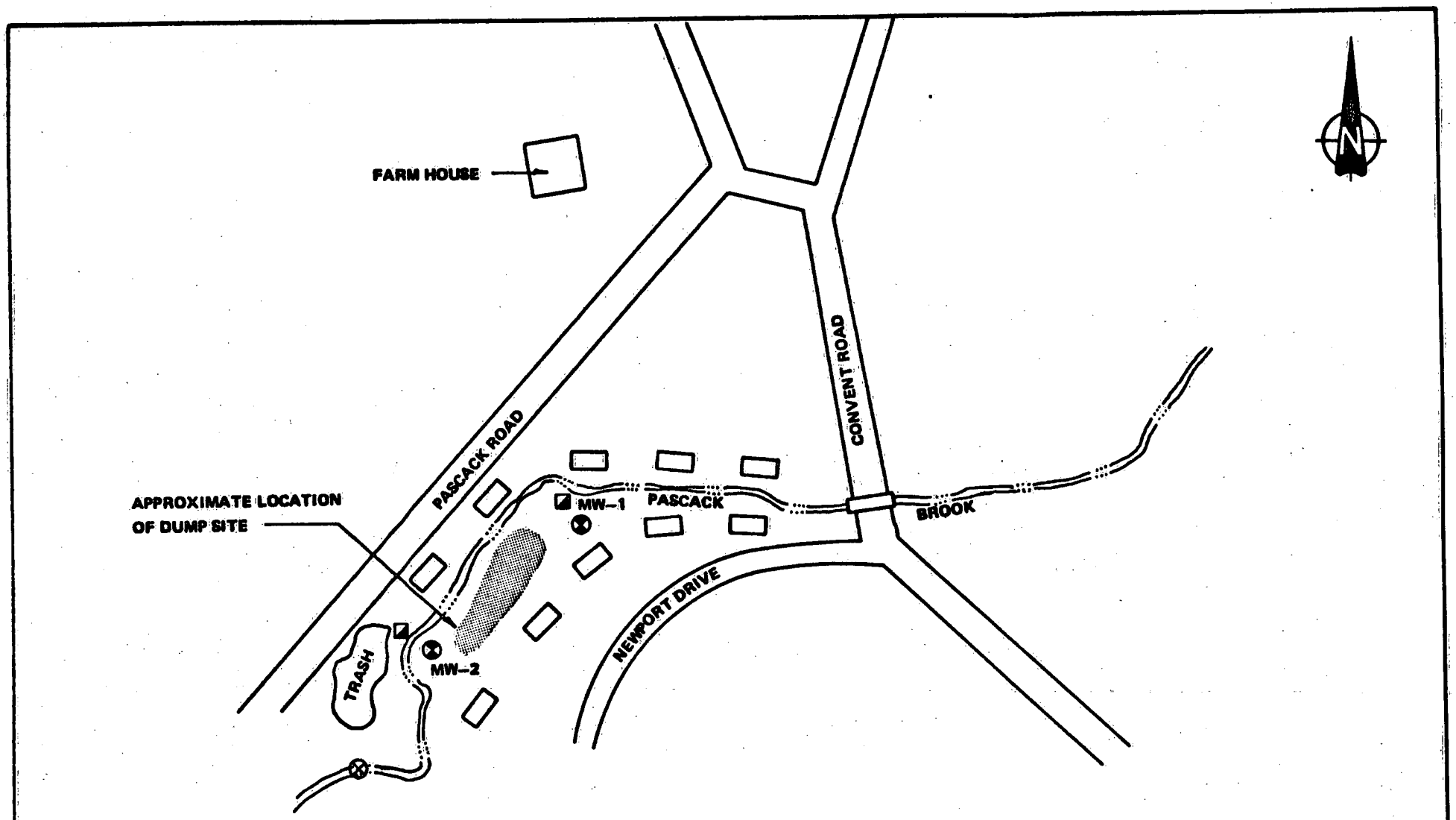
N

SITE LOCATION MAP
PASCACK BROOK SITE

WOODWARD—CLYDE CONSULTANTS, INC.

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
NEW YORK, NEW YORK

DR. BY: DRS	SCALE: 1 IN. = 2000 FT	PROJ. NO.: 82C4548—14
CK'D. BY: CM	DATE: 26 AUGUST 1983	FIG. NO.: 1



LEGEND

- PROPOSED MONITORING WELL
- SURFACE WATER SAMPLE
- TEST PITS

LOCATION PLAN
FOR PROPOSED PHASE II INVESTIGATION
PASCACK BROOK SITE

WOODWARD—CLYDE CONSULTANTS, INC.

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
NEW YORK, NEW YORK

DR. BY: DRS	SCALE: NOT TO SCALE	PROJ. NO.: 82C4648–14
CK'D. BY: CM	DATE: 26 AUGUST 1983	FIG. NO.: 2

APPENDIX A
REFERENCES

Donnelly Marketing, 1982, American Profile Information Retrieval System, Based on 1980 Census Data, Stamford, Connecticut, (LOCATION: WCC Files).

Hagstrom Map Co., 1979 Rockland County Road Map, (LOCATION: WCC FILES).

NYS Department of Agriculture and Markets, Division of Rural Affairs, 1983, Agricultural Districts Map, Data as of 21 April 1983, (LOCATION: NYSDAM/Albany Files).

New York State Department of Environmental Conservation, 1980a, Memo dated September 8, 1980 to Mr. Nosenchuck from Mr. Goddard, (LOCATION: WCC Files).

New York State Department of Environmental Conservation, 1980b, Letter to Thomas O'Hara dated September 5, 1980. (LOCATION: WCC Files).

NYSDEC, Division of Fish and Wildlife, 1975, Wetlands Inventory, Park Ridge, NJ-NY 7.5 Minute Quadrangle, (LOCATION: NYSDEC/Albany Files).

NYSDEC, Division of Fish and Wildlife, Significant Habitats Unit, 1983, File data as of 21 April 1983, (LOCATION: NYSDEC/Albany Files).

New York State Department of Environmental Conservation, Division of Hazardous Wastes, 1983, Personal communication with Jack Doty, NYSDEC, (LOCATION: WCC Files).

New York State Department of Environmental Conservation, Toxics Unit, 1980, Hazardous Waste Disposal Sites Report on Pascack Brook and Convent Road dated September 10, 1980, (LOCATION: WCC Files).

New York State Department of Health, 1980a, Problem alert dated September 8, 1980 from Dr. Stasiuk, (LOCATION: WCC Files).

New York State Department of Health, 1980b, Memo dated September 9, 1980 to Dr. Martino from Mr. Alvin G. Reilley, (LOCATION: WCC Files).

New York State Department of Health, 1980c, Letter to Dr. L. Hetling from Mr. A.G. Reilley dated 19 September, 1980, (LOCATION: WCC Files).

NYS Parks and Recreation, Division for Historic Preservation, Field Services Bureau, 1983, File data as of 21 April 1983, (LOCATION: Field Services Bureau/Albany Files).

Perlmutter, N.M., 1959, Geology and Ground Water Resources of Rockland County, New York, U.S. Geological Survey Bulletin GW-42, (LOCATION: WCC Files).

Rockland County Department of Health, 1983a, Public well data for wells within 3 miles of Pascack Brook Site, (LOCATION: WCC Files).

Rockland County Department of Health, 1983b, Personal communication with John Parnell, RCDH, (LOCATION: WCC Files).

Rockland County Department of Health, 1983c, Personal communication with Tom Micelli, RCDH, (LOCATION: WCC Files).

Rockland County Drainage Agency, 1980, Letter to Dr. Lee Wikstrom dated November 3, 1980, (LOCATION: WCC Files).

Rockland County Journal News, 1980a, Article by J. Grande dated August 31, 1980 entitled "Drainage Project Delayed as State Probes Waste Leaks", (LOCATION: WCC Files).

Rockland County Journal News, 1980b, Article by K. McCoy dated September 17, 1980 entitled "County to Analyze Contents of Barrels Found at Work Site", (LOCATION: WCC Files).

U.S. Geological Survey, 1955, 7.5 Minute Topographic Map, Park Ridge, NJ-NY, (LOCATION: WCC Files).

Woodward-Clyde Consultants, 1983, Site Survey, Pascack Brook at Convent Road, conducted by M. Khoury, Assistant Project Engineer, on 21 April 1983, (LOCATION: WCC Files).

APPENDIX B
PERTINENT INFORMATION

(Rockland County DOH, 1983A)

THE COUNTY OF ROCKLAND

ROCKLAND COUNTY DEPARTMENT OF HEALTH
POMONA, NEW YORK 10970
914-354-0200

Daniel Hyman, M.D.
Commissioner of Health

Richard J. Maloney, M.P.H.
Public Health Administrator

George E. O'Keefe, P.E., M.P.H.
Asst. Commissioner for Environmental Health

Judith Boyd, R.N.
Director of Patient Services

May 9, 1983

Mr. Tom Campbell
Woodward-Clyde Consultants
P.O. Box 290
Wayne, New Jersey 07470

Dear Mr. Campbell:

Attached is the information you requested of this department.

Included are the public wells located within three (3) miles of both the Pascack Road site and the Airmont Road site.

Please give us a call if we can be of any further help.

Very truly yours,

Catherine M. Quinn

Catherine M. Quinn
Assistant Public Health Engineer

CMQ/es
Attachment

Rock Co. Hwy

PASCACK RD. SITE [ALL WELLS LISTED OWNED BY SPRING VALLEY WATER CO.]

PUBLIC WELLS WITHIN 3 MILES RADIUS	DISTANCE (MI.) & DIRECTION	DEPTH (FT)	AQUIFER
GROTKE #83	1.3 SW	500	ALL ROCK WELLS
BIRCHWOOD AVE #70	0.6 N	450	
SPRING VALLEY WELL FIELD: 6 WELLS TOTAL (closed '81 due to organics contamination) WELL # 1, 2, 3, 4, 6, 17	2.0 NW	252-500	
PASCACK RD #65	1.6 N	404	
ECKERSON RD E. #71	2.6 N	406	
ECKERSON RD W. #82	2.3 NW	454	
LAKE SHORE #73	2.1 NE	363	
WESEL RD #32	2.5 NE	308	
NORGE AVE #64	1.6 NE	352	
NANUET WELL FIELD #13 & 14	1.6 SE	325 & 375	

Rock Co. H.

PASCACK RD SITE, CON'T

PUBLIC WELLS WITHIN 3 MILES RADIUS	DISTANCE (MI.) & DIRECTION	DEPTH (FT)	AQUIFER
PEARL RIVER # 22	2.5 SE	655	
PINE BROOK # 69	1.9 SW	402	
SADDLE RIVER CO #53	2.8 SW	351	
MORSEY RT 59 #31	2.4 NW	357	
MORSEY GROVE # 30	2.7 NW	420	
GEORGIOUS #21	2.5 NE	601	
BALLONIA # 19 (INOPERATIVE due to MANGANESE)	2.5 NE	477	

(Rockland County DOH, 1983)

WOODWARD-CLYDE CONSULTANTS

RECORD OF ~~TELEPHONE CONVERSATION~~ INTERVIEW page 1 of 2

Date: 19 July 83 Time: 10:30AM Project No. 820548-11

Re: Pascack Brook Site

Call Placed By: MRD Of: WCC

To: John Parnell Of: Rockland County DOH

Notes:

15 to 20 55-gallon drums were found during excavations for stream improvements. Other waste materials (timber, etc.) were also found. Almost all drums were broken. Contents of fairly intact drum were analyzed by HZM Company. Found to be ammonia--based cleaning compound - disinfectant, considered non-toxic. Material had very strong ammonia smell, was waxy, semi-solid that melted in sun. Drums believed to come from warehouse. Site is inactive.

Water supply well within ~3 miles (from Z-DOH map):

1. Birchwood Ave & Pascack Bk. (1/2 of site)
2. Grotke Rd well - Grotke (Brotke?) Road & Pascack Brook - South of site
3. Manuet well field - Allison Ave & Town Line - SE of site
4. Norge Ave. Well - Norge Ave over NYS Thruway - NE of site

continued→

Signed:

WOODWARD-CLYDE CONSULTANTS

RECORD OF ~~TELEPHONE CONVERSATION~~ INTERVIEW

Date: 19 July 83 Time: 10:30AM Project No. 82C4548-11

Re: Pascack Brook Site

Call Placed By: MRD Of: WCC

To: John Parnell Of: Rockland Co. DOH

Notes:

Mr. Parnell believes Nyack is only community in the area which uses surface water. Wells serve communities in the area. For more information contact Mark Reyhenberg, Spring Valley Water Co, 623-1500.

Signed: Mark R. DiBernard

WOODWARD-CLYDE CONSULTANTS (Rockland County DOH, 1983C) Project DEC

TELEPHONE CONVERSATION RECORD

Date 4/21/83

Time 1430

Conversants Name(s)	Affiliation(s)	Phone No.	Location(s)
(To) (From) Tom Micelli	Rockland Co Health Dept	914/354-0200	Pomona, NY
Recorded by	Woodward-Clyde Consultants		

SUBJECT: Wells near Sites # 39, 40

Record (Pertinent Facts and Data):

John Pernell is the county solid waste engineer and is familiar with the waste sites. He would be glad to help any way he can.

There is no permit system for private wells in Rockland County. There may be some wells in the area of the sites.

Site #39 Airmont Rd - There is a well 1,500' away that serves the Spring Valley Water Company. Depth is unknown. - Tallman's well -

Site #40 Pascack Brook - There is a well ≈ 3000' N of the site that serves Spring Valley Water Company - Go to the Well also there is a Birchwood Ave. well nearby. Depths, exact location unknown.

Kathy Quinn, a county engineer, has additional information.

- I spoke with her; she will get as much info. as she can on the wells near sites 39, 40.

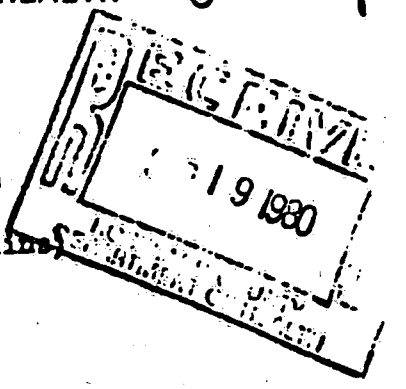
The Spring Valley Water Company has 67 wells and 2 surface reservoirs. It serves 333,000 people in Rockland Co.

(N4SDOH, 14800)

C O'Keefe

STATE OF NEW YORK — DEPARTMENT OF HEALTH

INTEROFFICE MEMORANDUM



To: Dr. L. Hetling - Division of Environmental Health

From: Mr. Alvin G. Reilley - Southern Region (White Plains)

Date: September 18, 1980

Subject: Status Report
Rockland County Drainage Agency Project
Pascack Brook at Convent Road
Clarkstown (T), Rockland County

This is a follow-up to my September 8, 1980 memorandum to confirm yesterday's telephone conversation relative to the status of this case. I received this update at yesterday afternoon's meeting with Mr. Burns and Mr. Doty NYSDEC (III).

As I mentioned, the Rockland County Legislature approved the expenditure of $25,000 for any necessary analyses regarding this project. Consequently, the agency has elected Option #1 which was outlined in Mr. Keller's September 5, 1980 letter. Copy attached for convenience of reference.

Also attached, are two (2) news articles which appeared in the (Rockland County) Journal News on August 31, 1980 and September 17, 1980.

Update information will be provided when available.

AGR

AGR/jp
Attachments
cc: Dr. David Axelrod - Commissioner - New York State Health Department
Mr. William Leavy - Director - Local Health Management
Dr. A. DeMartino - Southern Region (White Plains Office)
Dr. Nancy Kim - Bureau Toxic Substances Management
Assemblyman Robert Conner - Rockland County
Mr. Paul Keller - N.Y.S. Dept. Environmental Conservation - New Paltz
Mr. Gilbert Burns - N.Y.S. Dept. Environmental Conservation - White Plains
Mr. George O'Keefe - Rockland County Health Department
Mr. John Adamopoulos - Southern Region (White Plains Office)

Drainage project delayed as state probes waste leaks

JOURNAL-NEWS 8/31/80

By JUDY GRANDE
Staff Writer

A county drainage project costing nearly $700,000 has come to a partial halt while a state agency determines if the work area is contaminated with toxic waste.

About 15 barrels, believed to have been dumped more than a decade ago, were uncovered as much as 17 feet below ground during an excavation to widen the Pascack Brook in Nanuet.

The contents of some of the barrels had leaked out and four that were intact were taken along with a truckload of fill to the Clarkstown Landfill in West Nyack.

One oily substance has been identified by the Spring Valley Water Co. as urea hydrogen peroxide, a disinfectant that is not considered hazardous, according to John Parnell, solid waste engineer for the county.

A crystalized powder found in another barrel is still unidentified, leading the state Department of Environmental Conservation (DEC) to ban the material from the Clarkstown Landfill.

The landfill is adjacent to the Hackensack River, which leads to a water supply for northern New Jersey. The Pascack Brook, which runs into Woodcliff Lake and the Oradell Reservoir, is another source.

The water company, however, is not yet concerned because there is no sign of the disinfectant in samples taken of their water supplies, said spokeswoman Martha Green. And it is not considered toxic, she said.

The other barrels contain a substance that is similar in odor and other characteristics to the urea hydrogen peroxide, but tests so far have been inconclusive.

The barrels were uncovered a few weeks ago when bulldozers removed about half of a filled-in area along the brook near Convent Road. The fill was taken to the landfill, for use in covering garbage, but the barrels were found and set aside for inspection.

The next day, Aug. 8, the site was visited by state environmental officials and the samples were taken from the barrels, according to Parnell.

The DEC then said that Clarkstown could no longer take any of the fill until the hazardous nature of the substances is resolved.

In the meantime, the county Draingage Agency and the contractor, Joman Construction Corp. of Pearl River, are disturbed by the delay to the project.

The work in the brook area is at a standstill. Only improvements to the Convent Avenue bridge are continuing.

But time is money in the construction business and workers have had to be laid off, said Parnell.

It is also expected that the contractor will file a delay claim, which could cost the county more than $50,000, said Joe Ascolese, owner of the construction firm.

Homeowners are also concerned that the area may be hazardous, and the residents of Newport Estates may meet over the weekend to discuss the project.

Because of the residents' concerns, Assemblyman Robert Connor, D-New City, sent a telegram to Robert G. Flacke, commissioner of the DEC.

"Because there are homes adjacent to the site and young children in the area, and because the Pascack Brook travels through the site, I feel there is a need for immediate action," Connor wrote.

"If the barrels, some of which are leaking into the ground, contain harmless compounds, residents will be appreciative of your action to allay their fears. And if they are harmful, it will be necessary to take measures to protect the safety of residents and the quality of the public water supply."

(Rockland County Journal News, 1980)

JOURNAL-NEWS 9-17-80

County to analyze contents of barrels found at work site

Rockland will spend $25,000 for engineering tests to study the chemical contents of barrels found during work at a drainage excavation project off Convent Road in Clarkstown and to check area soil for possible toxic waste contamination.

The County Legislature unanimously approved the measure Tuesday night and also agreed to a $20,000 change in work plans on the project to keep the area undisturbed until after the study is completed.

Five barrels were unearthed Aug. 7 in the area near Newport Estates by construction company employees working on the Pascack Brook improvement project. Tests of the barrels' contents by the Hackensack Water Co. showed that two contained the chemical urea-hydrogen peroxide, which could contaminate ground water supplies if leaked from the containers.

The state Department of Environmental Conservation subsequently barred the county from removing the barrels and continuing work on the project until detailed study of the contents of the containers and soil in the area were completed.

Noting that "time is of the essence as there is a danger of contamination to our water supply," the Legislature voted to shift work on the project to the reconstruction of the Convent Road Bridge further upstream and start the required testing.

The Legislature also authorized the county attorney to take any necessary legal action "against the responsible party or parties concerning this uncovered and unrecorded landfill."

—KEVIN McCOY

(N4SDOH.1980A)

NEW YORK STATE DEPARTMENT OF HEALTH
OFFICE OF PUBLIC HEALTH
LOCAL HEALTH MANAGEMENT

PROBLEM ALERT

TO: Distribution

FROM: Dr. Stasiuk (Title)

(Unit)

CC: DR. AXELROD DR. GREENFIELD
DR. HAUGHIE DR. HUFFAKER
MR. LEAVY MR. DAVIDOFF
DR. CARPENTER MR. SOLOMON
DR. VIANNA Mr. Tramontano
DR. ROTHENBERG Mr. Al Reilley
DR. HETLING Mr. Ron Hirler
Dr. Nancy Kim DEC
DR. FLECK
HEALTH COMMUNICATIONS

SITE NAME & OWNER: Pascack Brook

LOCATION: Rockland County (C,T,V); (COUNTY)

CALL FROM: Assemblyman Connors/Al Reilley (NAME) (TITLE)

(UNIT) (ADDRES

DATE: 9/8/80 TIME: PHONE: AC TIE LINE NO.

PROBLEM (Describe circumstances, area affected, and possible duration):

Several barrels were uncovered in fill adjacent to Pascack Brook during a routine stream improvement project associated with a bridge rehabilitation (bridge is now closed pending project completion). The barrels appear to be associated with building rubble which may cover an area 200 feet by 100 feet. Number of barrels is unknown as the entire area has not yet been excavated. Preliminary samples analyzed by Rockland County indicate a urea-hydrogen peroxide cleaning fluid in one barrel. A detergent like material in other barrels has not been able to be identified. Workers complained of odors and nausea when a barrel was crushed during excavation. No sample of this barrel was taken.

The Oradell Reservoir which serves part of New Jersey is downstream of the site. There is an adjacent, new housing development which, from preliminary observations by Assemblyman Connors and Al Reilley, does not appear to have been constructed on the rubble site.

ACTION UNDERTAKEN: DEC's strike force is investigating the source of the rubble. Several options are being discussed including removal of the rubble to an interim site out of the stream pending determination of toxicity of various components of the rubble.

SAMPLES COLLECTED BY HEALTH DEPARTMENT: YES [ ] NO [X]

TYPE OF SAMPLE(S):

RESPONSIBLE DIVISION FOR FOLLOW-UP: Division of Environmental Health

LHM - GEN 520 7/80 OPH 226

(N95DOH, 1980)

STATE OF NEW YORK – DEPARTMENT OF HEALTH

INTEROFFICE MEMORANDUM

To: Dr. DeMartino

From: Mr. Alvin G. Reilley

Date: September 8, 1980

Subject: Site Investigation & Conference
Rockland County Drainage Agency Project
Pascack Brook at Convent Road
Clarkstown (T), Rockland County

In accordance with Dr. Axelrod's request I met at the above site on September 5, 1980 with Assemblyman Robert Connor to assess the particular problem and determine what assistance, if any, our Department could provide. Also in attendance were:

Mr. Paul Keller - N.Y.S.D.E.C. (III)
Mr. Gilbert Burns - N.Y.S.D.E.C. (III)
Mr. Thomas Micelli - R.C. Health Dept.
Mr. Thomas O'Hara - R.C. Drainage Agency
Contractor
Home Owner's Association Representative

Comments are presented below in outline form for convenience of reference.

General Background

- This is a Rockland County Drainage Agency Project to alleviate flood plain problems along the Pascack Brook.
- The Pascack Brook originates in Rockland County, North of Spring Valley, around the Village of New Square and flows south into New Jersey, ultimately draining into the Oradell Reservoir, Oradell, New Jersey.
- Although the Pascack Brook is not a Water Supply Source in New York, it is one in New Jersey.
- The site of concern was near the intersection of Convent Road and Pascack Road, the southwestern corner of the Town of Clarkstown, Rockland County, about 2-3 miles north of the New Jersey Border. Refer to attached map, arrow pointing to site.
- While excavating east side of Pascack Brook contractor uncovered old dumping site and proceeded to haul materials to the Town of Clarkstown Landfill.

- On 8/7/80 the Landfill refused material on site due to presence of four (4) drums and strong chemical odor of the materials.

- Samples analyzed by the Hackensack Water Co. Labs.
  1 drum - Urea Hydrogen Peroxide (analysis not confirmed to date).
  Other drums - The other (soap like material) could not be identified.

- Contractor stopped excavation immediately primarily because of no site to haul the alleged toxic/hazardous wastes to.

- Assemblyman Conner called September 5th conference.
  1) Nearby homeowners concerned with findings.
  2) Pascack Brook feeds New Jersey Water Supply.
  3) Contractor has to determine how to move and dispose of materials.

September 5, 1980 Site Inspection & Conference

- For the entire extent of the excavation the material appeared to be primarily of demolition type.

- Only one (1) drum was visible.

- Contractor is under contract to remove about 2,000 cubic yards of this material.

- The total "dumping" site could involve the removal of 5,000 - 10,000 cubic yards.

- Dump site may be 15-20 years old. We were told an old pay phone was found containing coins up to 1963 mintage.

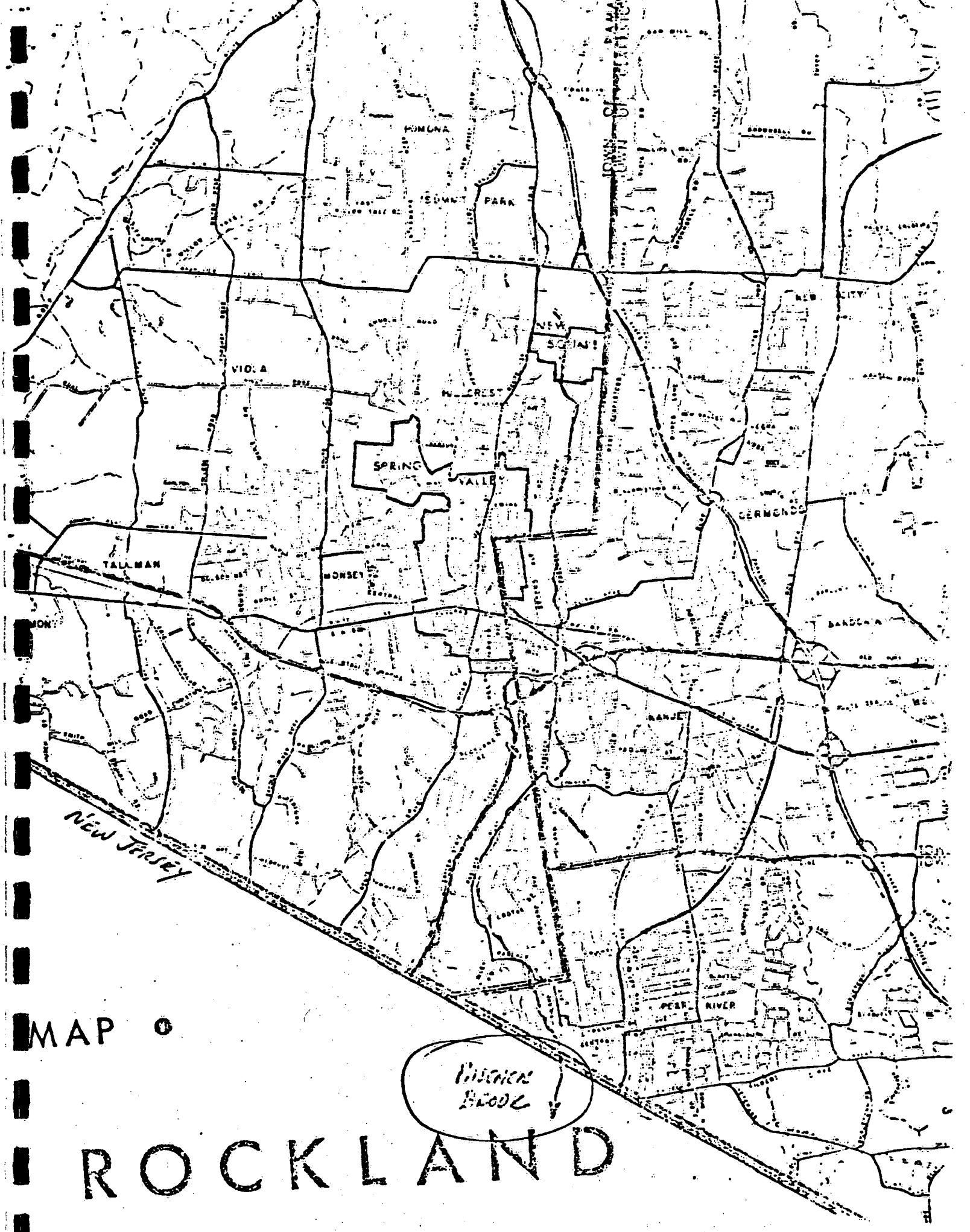
- Dump site in close proximity of new homes - about 200 ft. ± due west of homes, between homes and Pascack Brook.

- In fact, dump site may be an easement actually on the homeowners' properties - boundaries not known at time of inspection.

Apparent Approaches To Abate Problem

- Contractor to haul all questionable materials (2,000 ± cubic yards) to an approved disposal site. Closest sites in Buffalo or in New Jersey. Appears that only four (4) such sites are available. Information about these are attached.

- Or Sample every drum, when and if excavated, for specific determination of procedure to follow.



MAP ©

ROCKLAND

Apparent Approaches To Abate Problem Cont.

- Note: Because contractor wishes to expedite project (includes building a bridge over Pascack Brook and putting down new roads) before Nov. 15th he was interested in hauling all the material off the site as soon as possible. Did not wish to be delayed by turnaround time, in sampling drums as they appeared.

Apparent & Necessary State/County Actions

N.Y.S.D.E.C. - has written to the Rockland County Drainage Agency relating the options to be taken. Refer to copy of Mr. Paul Keller's September 5, 1980 letter, copy attached.

- has added this site to the List of Hazardous Waste Disposal Sites in New York State.

- has referred this matter to their Dept.'s Strike Force for investigation of who and when this material was dumped on the site.

Rockland Co. - County Legislature must approve additional funds necessary to properly haul the alleged toxic/hazardous material away for adequate disposal.

N.Y.S.H.D. - Should and when samples need analyses top priority should be a consideration, under the aforementioned circumstances.

Please be advised that for the sake of expediting transmittal of this information, this memorandum contains only the information secured on September 5, 1980. Prior to that date our files were completely silent regarding this case. Therefore, I am requesting all the participants, by carbon copy of this memorandum, to kindly provide me with any corrections and/or additional comments as appropriate. I propose to monitor this particular case and will provide you with appropriate updates.

AGR/jp
Attachments
cc: Dr. David Axelrod - Commissioner - New York State Health Department
Mr. William Leavy - Director - Local Health Management
Dr. Leo Hetling - Division Environmental Health
Dr. Nancy Kim - Bureau Toxic Substances Management
Assemblyman Robert Conner - Rockland County
Mr. Paul Keller - N.Y.S. Dept. Environmental Conservation - New Paltz
Mr. Gilbert Burns - N.Y.S. Dept. Environmental Conservation - White Plains
Mr. George O'Keefe - Rockland County Health Department
Mr. John Adamopoulos - Southern Region (White Plains Office)

HAZARDOUS WASTE DISPOSAL SITES REPORT
FROM: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC, 1980)

Toxics Unit

Priority Code: B
Site Code: 344016
Name of Site: Pascack Brook and Convent Road. Region: 3
County: Rockland Town/City Nanuet
Street Address: Convent Road and Pascack Brook

Status of Site Narrative:

Contractor doing road and stream improvement job excavated an old dump. Strong odors and several fiber and steel drums and contaminated soil brought concern. One product in drums tentatively identified as urea hydrogen peroxide.

Type of Site: Open Dump [X] Treatment Pond(s) [ ] Number of Ponds
Landfill [ ] Lagoon(s) [ ] Number of Lagoons
Structure [ ]

Estimated Size 1.0 Acres

Hazardous Wastes Disposed? Confirmed [ ] Suspected [X]

*Type and Quantity of Hazardous Wastes:

Type	Quantity (Pounds, drums, tons, gallons)
Urea Hydrogen Peroxide and others	Unknown

*Use additional sheets if more space is needed.

Name of Current Owner of Site: Unknown

Address of Current Owner of Site: _____

Time Period Site Was Used for Hazardous Waste Disposal:

_____, 19__ To UNKNOWN, 19__

Is site Active ☐ Inactive ☒

(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐ Drummed materials

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action:

Status of Legal Action: NONE State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ Spoils ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐
NONE

Assessment of Environmental Problems:

Unknown until analysis are complete

Assessment of Health Problems:

Several residences with private wells within 500 feet. Peacock Brook is a water supply source downstream in New Jersey and feeds Oradell Reservoir in New Jersey.

Persons Completing this Form:

Jack Doty — Ron Trapertano

G. David Knowles

New York State Department of Environmental Conservation — New York State Department of Health

Date September 10, 1980 — Date September 10, 1980

1/18/80
COPIES

WOODWARD-CLYDE CONSULTANTS

TELEPHONE CONVERSATION RECORD

DATE 15 Aug 83 TIME 11:00 ☒ AM ☐ PM PROJECT NO. 82C4548

☒ TO ☐ FROM Jack Doty RECORDED BY Cal

COMPANY NYSDEC PHONE NO. 914-761-6660

ADDRESS Div. of Hazardous Waste - Enforcement Element

PROJECT NAME White Plains, NY.

RE: Results of testing @ Piscack Brook site

As far as Doty knows materials were found to be "non-hazardous".

Much of the initial concern was due to strong odors during excavation.

Recommended calling Bill Sullivan (or Rich Gardineer) at New Paltz office - 914-255-5453

(NYSDEC, 1980a)

New file
So. Reg
Pascack Brook
(T) Clarkstown
Rockland Co.

Mr. Nosenchuck
Mr. Goddard
Assemblyman Connor's Telegram - Chemical Dumping

September 8, 1980

I spoke with Jack Doty and Gil Burns of Region 3 concerning the information included in Assemblyman Robert Connor's telegram dated August 27, 1980. From those conversations I obtained the following information.

On August 7, the region became aware of excavation for bridge construction in the Town of Clarkstown. Excavated soil was being taken to the Clarkstown landfill for use as cover when strong chemical odors were detected. In a subsequent load of soil taken to the landfill, metal and fiber drums of chemicals were encountered. On August 8, Jack Doty inspected the situation and informed the Town that no further soil could be accepted at the landfill until chemical tests have been run and decisions made that there would be no environmental problems caused by continued disposal. The construction project was shut down. DEC is apparently being blamed for stopping the construction effort when in fact only the deposition of soil of the landfill was stopped.

Representatives of the Spring Valley Water Company took samples of the waste materials. Analyses are not complete. One chemical, urea hydrogen peroxide, has been identified and John Rankin informs me that it is not a chemical for which we should be concerned.

In direct response to your question, yes, Region 3 does seem to be on top of this matter.

From what I have been able to learn so far, Assemblyman Connors' comments seem to be overreaction.

cc: Mr. Miller
Mr. Knowles
Mr. Harrison

CNG:bd

(NYSDEC, 1980b)

South Putt Corners Road, New Paltz, New York 12561

Robert F. Flacke

September 5, 1980

Mr. Thomas O'Hara
Rockland County Drainage Agency
23 New Hempstead Road
New City, New York

Re: Pascack Brook
Drainage Project
Pascack Road and Convent Road

Dear Mr. O'Hara:

After inspecting the drainage construction site and discussing all previous activities with the County Health Department, there appears to be several options for resolving this problem.

First, collection and analysis of the contents of the drums and any saturated soil for identification of the material should be accomplished as soon as possible by an approved laboratory. After this is done, this Department can then recommend an acceptable method of disposal for this material. The results of the sample already taken and analyzed by the Hackensack Water Co. has been referred to our Central Office for such evaluation.

With this option, any different material unearthed in further excavation will also require identification for proper disposal.

Secondly, it can be assumed without further identification that the material will have to be transported to a secure disposal facility. Attached is a listing of these approved facilities.

Please keep us advised as to your further actions in this matter.

Very truly yours,

Paul D. Keller
Regional Director
Region 3

PDK:GB:bz
Enclosures
cc: Assemblyman Conner
Rockland County Health Dept.
NYS Health Dept.
Mr. C. Goddard
Mr. J. Harrison

FACILITY NAME AND ADDRESS

CECOS International, Inc.
P.O. Box 619
Niagara Falls, NY 14302

CONTACT PERSON AND TELEPHONE

Cary P. Hall, Vice President Sales
(716) 731-3281

SERVICES PROVIDED

Collection/hauling, processing/treatment, laboratory analysis, recycling, reclamation, brokerage, disposal, hazardous waste incident and emergency response.

SERVICE AREA

Northeastern United States extending westward through Pennsylvania, to West Virginia, Ohio, Indiana, Illinois, and Mississippi. Special Services Team for emergencies will work anywhere in the United States.

WASTE STREAMS APPROVED BY GOVERNING AGENCY AND ACCEPTED BY THE FACILITY

Most every type of waste considered, including PCB's, pesticides and herbicides.

WASTE STREAMS SPECIFICALLY PROHIBITED

Radioactive, pyrophoric, shock-sensitive, and explosive materials

LABORATORY CAPABILITIES

Complete organic and inorganic capabilities available.

FACILITY NAME AND ADDRESS

Frontier Chemical Waste Process, Inc.
4626 Royal Avenue
Niagara Falls, NY 14303

CONTACT PERSON AND TELEPHONE

Peter Hessinger - Vice President
Marketing & Sales
(716) 285-8208

SERVICES PROVIDED

Collection/hauling, processing/treatment, consulting, recycling/reclamation, storage, brokerage, lab analysis

SERVICE AREA

Northeastern United States, Southeastern Canada

WASTE STREAMS APPROVED BY GOVERNING AGENCY AND ACCEPTED BY THE FACILITY

Acids, alkalis, cyanides, sulfides, heavy metal aqueous, organic aqueous mixtures, oils, burnable solvents, chlorinated solvents, emulsions, multi-phase wastes, sludge, still bottoms, miscellaneous solids.

WASTE STREAMS SPECIFICALLY PROHIBITED

Radioactive wastes, shock-sensitive wastes, explosives, PCB, PBB

LABORATORY CAPABILITIES

Gas Chromatography, atomic absorption, specific ion detection, calorimetry, various other instrumental and bench methods

FACILITY NAME AND ADDRESS

SCA Chemical Waste Services, Inc.
P.O. Box 200 1550 Balmer Road
Model City, NY 14107

CONTACT PERSON AND TELEPHONE

Marketing Department
(716) 754-8231

SERVICES PROVIDED

Collection, hauling, processing, treatment, recycling, reclamation, lab analysis, storage, secure landfill, consulting, hazardous waste incident and emergency response

SERVICE AREA

Entire State of New York plus surrounding states in the Northeast.

WASTE STREAMS APPROVED BY GOVERNING AGENCY AND ACCEPTED BY FACILITY

Most wastes considered including solvents, acid, heavy metal sludge, still bottoms, paint wastes, PCB solid and sludges, contaminated soil, solid organic waste, cyanide, lab chemicals, organic liquids

WASTE STREAMS SPECIFICALLY PROHIBITED

Shock sensitive, radioactive wastes, pyrophoric materials

LABORATORY CAPABILITIES

Complete organic and inorganic capabilities available.

FACILITY NAME AND ADDRESS

Rollins Environmental Services
P.O. Box 221
Bridgeport, New Jersey 08014

609-467-3100

New York State Department of Environmental Conservation
21 South Putt Corners Road, New Paltz, New York 12561

Henry G. Williams
Commissioner

August 17, 1983

Woodward-Clyde Consultants
201 Willowbrook Boulevard
Post Office Box 290
Wayne, New Jersey 07470

Attention: Ms. Ceil Mancini

Re: Pascack Brook-Convent Road Site
Rockland Co. 344016

Dear Ms. Mancini:

Enclosed is the letter which you requested regarding the analysis of the material uncovered at the Pascack Brook construction site in 1980.

This is the only pertinent piece of correspondence after September 10, 1980.

Should you find that this office can be of further assistance with your Superfund Phase I investigation, please contact me.

Very truly yours,

William G. Sullivan
Assistant Sanitary Engineer
Region 3

dn-h

(RCDA, 1980)

202 Mamaroneck Avenue
White Plains, N.Y. 10601

Robert F. Flacke

November 3, 1980

Dr. Lee Wikstrom
Rockland County Drainage Agency
Rockland County Office Building
New City, New York 10956

RE: REMOVAL OF MATERIAL FROM THE PASCACK BROOK IMPROVEMENT AREA

Dear Dr. Wikstrom:

We have received a copy of the analysis of the material uncovered during construction in the Pascack Brook Area in the (T) of Clarkstown. This material was analyzed through H2M Corporation of Melville, New York. We have reviewed the results with our Bureau of Hazardous Wastes in Albany.

Our review is consistent with the conclusion of H2M that these wastes appear not to have a significant effect on the environment as toxic or hazardous wastes. It should be noted that this is based on the fact that the material found is in a solid or semi-solid state (greater than 20% solids).

Therefore the following recommendations can be made:

1) If the material from the drums can be removed and mixed with the soil already permeated, it can be spread on a landfill with monitoring wells. The affected soil shall be spread over the landfill or to provide final cover.

2) If such a disposal area is not available, the drums should be removed to secure land burial facility.

3) The hauler of this material must obtain a Part 364 permit from D.E.C.

Very truly yours,

John E. Harrison, P.E.
Regional Solid Waste
Engineer

JEH:fk
cc: Mr. Conner
Mr. Knapp
Mr. O'Keefe

APPENDIX C
UPDATED NEW YORK STATE REGISTRY FORM

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: B

Site Code: 344016

Name of Site: Pascack Brook and Convent Road **Region:** 3

County: Rockland **Town/City** Nanuet

Street Address Convent Road & Pascack Brook

Status of Site Narrative:

In August of 1980, 15-20 gallon drums of waste were excavated during stream improvement work along Pascack Brook. Subsequent analyses performed indicated the substances to be non-hazardous. One waste was identified as urea hydrogen peroxide.

Type of Site: Open Dump ☐ Treatment Pond(s) ☐ Number of Ponds_____
Landfill ☐ Lagoon(s) ☐ Number of Lagoons_____
Structure ☐ Buried Drums X

Estimated Size <1 **Acres**

Hazardous Wastes Disposed? **Confirmed** ☐ **Suspected** ☒

***Type and Quantity of Hazardous Wastes:**

TYPE	QUANTITY (Pounds, drums, tons, gallons)
Unknown	

*** Use additional sheets if more space is needed.**

Name of Current Owner of Site: Unknown

Address of Current Owner of Site: _____

Time Period Site Was Used for Hazardous Waste Disposal:

_____, 19 To Unknown, 19

Is site Active ☐ Inactive ☒
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☒ None ☐
Surface Water ☐ Soil ☒

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☒
Nature of Action: Contents of drums were analyzed and disposed of at Clarkstown Landfill.

Status of Legal Action: None. State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
None. Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

Although wastes were found to be non-hazardous, and all excavated drums were removed, the potential may exist for additional buried wastes.

Assessment of Health Problems:

Persons Completing this Form:

Ceil Mancini

Woodward-Clyde Consultants

September 1, 1983

New York State Department of Environmental Conservation

Date

New York State Department of Health

Date

6/3/81
RPM:cl